PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL LOCATED AT THE INTERSECTION OF US 301 AND MD 257. US 301 IS ASSUMED TO RUN IN THE NORTH/SOUTH DIRECTION IN CHARLES COUNTY.

THIS MODIFICATION INCLUDES THE FOLLOWING: INSTALLATION OF TRAFFIC SIGNAL POLE, VIDEO DETECTION CAMERAS, INTERSECTION LIGHTING BASE MOUNTED CABINET AND CONTROLLER, SIGNS, VEHICLE SIGNAL HEADS AND NON-INVASIVE MICRO-LOOP PROBES AT THE INTERSECTION OF US 301 AND MD 257.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A FLASHING MODE. THERE WILL BE EXCLUSIVE LEFT TURN FOR SOUTHBOUND US 301 AND THE SOUTHBOUND THROUGH MOVEMENT OF US 301 WILL HAVE AN EXCLUSIVE DIRECTION. THE THROUGH MOVEMENTS ALONG NORTHBOUND US 301 WILL OPERATE ALONE. THE MD 257 MOVEMENT WILL OPERATE ALONE.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE S.H.A. AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE STATE OF MARYLAND.

ITEM	0444477777		•	DECORIDEION
NO.	QUANTITY	UNIT		DESCRIPTION
9001	1	ΕA		[UPDATED] (CONT/CAB/ADD) DETECTOR RACK POWER SUPPLY
9016	: 1	EΑ		[UPDATED] 4 CHANNEL DETECTOR AMPLIFIER
9042	1	EΑ	•	[UPDATED] CONTROLLER ASC II WITH TELEMETRY
9044	1	EΑ	•	[UPDATED] CONTROLLER CABINET. SIZE 6
9086	1	EΑ		[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9570	54	SF		[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
9571	135	SF		[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN
	1	EA	:	R3-5(L) 30"x 36" - MAST ARM MOUNT
	1	EΑ		R10 -12(4) 36"x 42" - MAST ARM MOUNT
•	4	EΑ		D-3(1) VAR. × 16" (DUAL FACED) - MAST ARM MOUNT
	2	ΈA	•	W3-3 36"x 36" - GROUND MOUNT
•	1	EΑ	•	R1-2 36"x 36" - GROUND MOUNT
	2	EA		OM1-(1) 18"x 18" - GROUND MOUNT
	3	EA		R6-1(R) 36"x 12" - GROUND MOUNT
	2	EΑ		R5-1 30"x 30" - GROUND MOUNT
•	1	EΑ		SHIELD ASSEMBLY 48"x 78" - GROUND MOUNT
	3	EA		SHIELD ASSEMBLY 30"x 51" - POLE MOUNT
	2	EΑ		R1-2 36"x 36" - POLE MOUNT

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

				•		
	ITEM					
	NO.		QUANTITY	UNIT	DESCRIPTION	
	1001		2	EA	MAINTENANCE OF TRAFFIC TEST PIT EXCAVATION	. *
	2002		4 135	CY LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMAMENT PREFORMED THERMOPLASTIC PAVEMENT N	MARK ING
	5001 5002		35	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH	
	5002		80	ĒΕ	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	
*	6002	•	80	SF	4 INCH CONCRETE SIDEWALK	
	8001		24	EA	12 INCH LED SIGNAL HEAD SECTION	
•	8007	•	2	EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE	
	8009		_ 1	EA	BREAKAWAY PEDESTAL POLE ANY SIZE	
	8018		1	EA	MAST ARM POLE AND 70 FOOT MAST ARM ANY T DIMENSION NONINVASIVE DETECTOR ANY LENGTH LEAD IN CABLE UP TO 1000 FT	
	8021		2	EA	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT	•
s .	8022		1	EA	TWIN MAST ARM POLE AND 50 FT / 60 FT MAST ARM ANY DIMENSION	
	8023	1	1	EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FOOT	*
	8026		555	EA	SHCEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES TRENCHED	
	8035		330	Lr 1 F	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES BORED	
	8036		88	L F	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH	
٠.	8037 8039	*	189	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN INCLUDING ALL HARDWARE	
	8041		300	ĹF	NO 6 AWG STRANDED BARE COPER GROUND WIRE	
-	8043		1	ĒA	METERED SERVICE PEDESTAL EMBEDDED	
•	8045		105	LF	ELECTRICAL CABLE 1 CONDUCTOR NO 4 AWG THHN / THWN	
	8047	* "	. 7	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE	
	8056	* - 1	75	LF	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG	
	8057		760	LF	ELECTRICAL CABLE - 7 CONDUCTOR NO 14 AWG	*
	8058		200	LF	ELECTRICAL CABLE - 2 CONDUCTOR NO 12 AWG TC	
	9065		1	FΔ	INSTALL CONTROLLER AND CABINET - BASE MOUNT	

C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM

QUANTITY UNIT

DESCRIPTION

NONE

PROJECT CONTACTS

THE CONTACT PERSONS ARE AS FOLLOWS:

MRS. KIMBERLY TRAN DISTRICT ENGINEER-TRAFFIC PHONE: 410-841-1003

MR. ANDRE FUTREL ASSISTANT DISTRICT ENGINEER-MAINTENANCE PHONE: 410-841-1002

MR. ED RODENHIZER CHIEF, SIGNAL OPERATION SECTION PHONE: 410-787-7652

MR. JOHN S. MAYS DISTRICT UTILITY ENGINEER PHONE: 410-841-1005

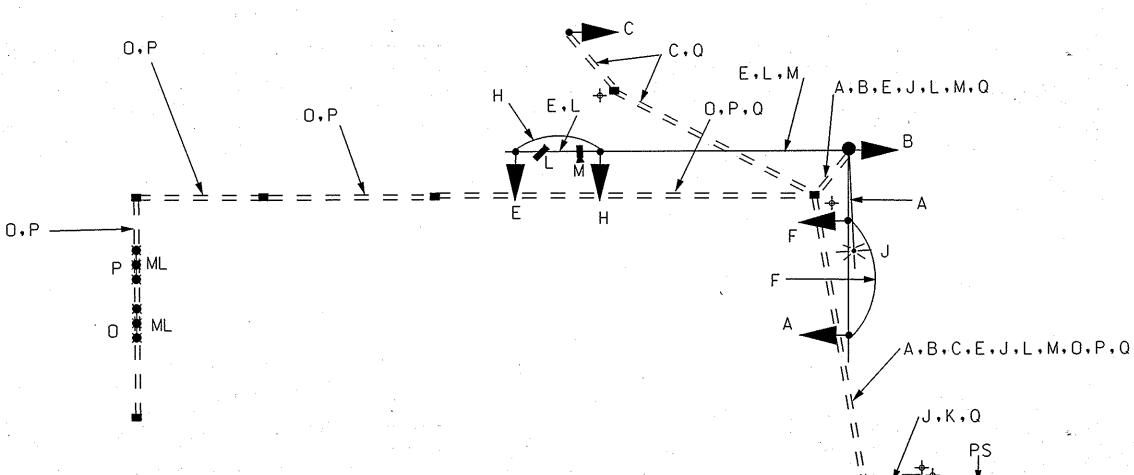
MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATION DIVISION PHONE: 410-787-7630

MR. ROBERT SNYDER ASST. CHIEF, TRAFFIC OPERATION DIVISION PHONE: 410-787-7631

PHASE CHART

PHASE 5	R	R	+G−	+ G−	G	G	R	R	
5 CHANGE	R	R	← Y-	+ Y-	Υ	Υ	R	R	H √_
PHASE 6	Ğ	G	FL4R	FL∕₄R	FL/R	FL/R	R	R	1
6 CHANGE	Υ	Υ	+R−	+R−	R	R	R	R	—— Þ
PHASE 4	R	R	+R	+R−	R	R	G	G	,
4 CHANGE	R	R	+R-	+R-	R	R	Υ	Υ	F
FLASHING OPERATION	FLY	FLY	FLAR	FL4R	FL/R	FL/R	FL/R	FL/R	





CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE

VIDEO DETECTION CABLE

MICRO-LOOP PROBE 1000 FT LEAD-IN CABLE

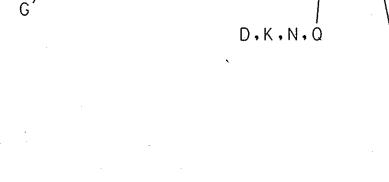
Q — 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

R — 3 WIRE 1 CONDUCTOR (NO. 4 AWG)

ML — MICRO-LOOP PROBE (3 SET)

PS - POWER SERVICE UNDERGROUND

GROUND ROD



TOD No: AT915-16 SHA No.: CH337A52/B52 US 301 @ MD 257

BRUDIS & ASSOCIATES, INC. CONSULTING ENGINEERS

> 9220 RUMSEY ROAD SUITE 110 COLUMBIA, MARYLAND 21045



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION US 301(CRAIN HIGHWAY) AND MD 257(ROCK POINT ROAD) NEWBURG, MARYLAND

L,M,N,Q

\A,B,C,E,D,O,P

'A,B,C,D,E,L,M,N,O,P,Q

TELEPHONE-DROP

GENERAL INFORMATION PLAN SCALE NONE DATE 11/06 CONTRACT NO. AT9155185 COUNTY CHARLES DESIGNED BY M.A. MEARS DRAWN BY M.A. MEARS LOGMILE _____08025709.75

GI OF

CHECKED BY RJM

DRAWING NO.

SHEET NO. 2 OF 2

T.I.M.S. NO. <u>H576</u>

PLOTTED: \$DATETIME\$
FILE: \$FILE\$